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To know the Hour and Minute of  
the Sun-rising and Setting at any  
time of the year, in any Place  
of the habitable World.

By HENRY PHILIPS.



**T**HE time of Sun-rising and Setting  
is exactly set down in the Fifth Co-  
lume of the Seaman's Kalender, for  
every day of the Year for the Lati-  
tude of London; So that by know-  
ing the day of the Month, you  
may know the time of Sun rising and Setting with-  
out further trouble; Now if you double the time of  
Sun-rising, you may know the length of the Night;  
Likewise double the time of the Sun-setting, and  
it shews the length of the Day. This is so plain  
that it needs no Example.

But because the Sun-rising and Setting doth dif-  
fer in every Latitude, therefore for the use of the  
Seamen I have set down this Table, by the which  
knowing the Place of the Sun, and the Latitude  
of the Place you are in, you may know the time of  
Sun-

Here enter  
with the  
day of the  
month to  
find the Suns  
Setting.

A Table of the Suns Rising and Setting in all pla-  
ces to the Latitude of 60 degrees.

The Latitude or Height of the Pole.

		5	10	15	20	25	30	35	40
		H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.
January.	December.	5 51	5 42	5 33	5 24	5 13	5 2	4 49	4 34
	11 11	5 51	5 42	5 33	5 24	5 13	5 2	4 50	4 35
	17 5	5 52	5 43	5 33	5 25	5 14	5 4	4 51	4 36
	23 29	5 52	5 43	5 34	5 25	5 16	5 6	4 53	4 40
	28 23	5 53	5 44	5 35	5 27	5 18	5 8	4 56	4 43
February.	November.	5 53	5 45	5 37	5 29	5 21	5 11	5 0	4 48
	9 11	5 54	5 46	5 39	5 31	5 23	5 15	5 4	4 4
	15 6	5 54	5 48	5 41	5 33	5 26	5 19	5 10	5 8
	21 31	5 55	5 49	5 43	5 36	5 30	5 23	5 15	5 6
	27 25	5 56	5 50	5 45	5 39	5 34	5 28	5 21	5 13
March.	October.	5 56	5 52	5 47	5 43	5 38	5 33	5 28	5 21
	8 13	5 57	5 53	5 49	5 45	5 42	5 38	5 34	5 28
	14 7	5 58	5 55	5 52	5 49	5 47	5 44	5 41	5 36
	20 1	5 58	5 57	5 55	5 52	5 51	5 49	5 47	5 44
	26 25	5 59	5 58	5 57	5 56	5 55	5 54	5 53	5 52
April.	September.	6 06	6 06	6 06	6 06	6 06	6 06	6 06	6 06
	10 12	6 16	6 26	6 36	6 46	6 56	7 6	7 6	8
	16 6	6 26	6 36	6 56	7 6	9 6	11 6	13 6	16
	22 31	6 26	6 56	8 6	11 6	13 6	16 6	19 6	24
	28 25	6 36	7 6	11 6	15 6	18 6	22 6	26 6	32
May.	August.	6 46	8 6	13 6	17 6	22 6	27 6	32 6	39
	9 13	6 46	10 6	15 6	21 6	26 6	31 6	39 6	47
	15 6	6 56	11 6	17 6	24 6	30 6	37 6	45 6	54
	22 31	6 66	12 6	19 6	27 6	34 6	41 6	50 7	0
	28 25	6 66	14 6	21 6	29 6	37 6	45 6	56 7	6
June.	July.	6 76	15 6	23 6	31 6	39 6	49 7	0 7	12
	10 12	6 76	16 6	25 6	33 6	42 6	52 7	4 7	17
	17 6	6 86	17 6	26 6	35 6	44 6	54 7	7 7	21
	23 30	6 86	17 6	27 6	35 6	46 6	56 7	9 7	24
	29 23	6 96	18 6	27 6	36 6	47 6	57 7	10 7	28
Suns-Rising		5	10	15	20	25	30	35	40

In South Latitude.



Here enter  
with the  
day of the  
month to  
find the Suns  
setting.

*A Table of the Suns Rising and Setting in all places to the Latitude of 60 degrees.*  
The Latitude or Height of the Pole.

	5	10	15	20	25	30	35	40
	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.
II 11	5 51	5 42	5 33	5 24	5 13	5 2	4 49	4 34
17 5	5 51	5 42	5 33	5 24	5 13	5 2	4 50	4 35
23 29	5 52	5 43	5 33	5 25	5 14	5 4	4 51	4 36
28 23	5 52	5 43	5 34	5 25	5 16	5 6	4 53	4 40
31 7	5 53	5 44	5 35	5 27	5 18	5 8	4 56	4 43
9 11	5 53	5 45	5 37	5 29	5 21	5 11	5 0	4 48
15 6	5 54	5 46	5 39	5 31	5 23	5 15	5 4	4 54
21 31	5 54	5 48	5 41	5 33	5 26	5 19	5 10	5 8
27 25	5 55	5 49	5 43	5 36	5 30	5 23	5 15	5 6
21 9	5 56	5 50	5 45	5 39	5 34	5 28	5 21	5 13
8 13	5 56	5 52	5 47	5 43	5 38	5 33	5 28	5 21
14 7	5 57	5 53	5 49	5 45	5 42	5 38	5 34	5 28
20 1	5 58	5 55	5 52	5 49	5 47	5 44	5 41	5 36
26 25	5 58	5 57	5 55	5 52	5 51	5 49	5 47	5 44
4 18	5 59	5 58	5 57	5 56	5 55	5 54	5 53	5 52
10 12	6 06	6 06	6 06	6 06	6 06	6 06	6 06	6 0
16 6	6 16	6 16	6 16	6 16	6 16	6 16	6 16	6 8
22 31	6 26	6 26	6 26	6 26	6 26	6 26	6 26	6 16
28 25	6 26	6 26	6 26	6 26	6 26	6 26	6 26	6 24
3 19	6 36	6 36	6 36	6 36	6 36	6 36	6 36	6 32
9 13	6 46	6 46	6 46	6 46	6 46	6 46	6 46	6 39
15 6	6 46	6 46	6 46	6 46	6 46	6 46	6 46	6 47
22 31	6 56	6 56	6 56	6 56	6 56	6 56	6 56	6 54
28 25	6 66	6 66	6 66	6 66	6 66	6 66	6 66	6 50
4 19	6 66	6 66	6 66	6 66	6 66	6 66	6 66	6 56
10 12	6 76	6 76	6 76	6 76	6 76	6 76	6 76	6 45
17 6	6 76	6 76	6 76	6 76	6 76	6 76	6 76	6 47
23 30	6 86	6 86	6 86	6 86	6 86	6 86	6 86	6 54
29 23	6 86	6 86	6 86	6 86	6 86	6 86	6 86	6 56
4 17	6 96	6 96	6 96	6 96	6 96	6 96	6 96	6 57
11 11	6 96	6 96	6 96	6 96	6 96	6 96	6 96	6 58
Suns-Rising	5	10	15	20	25	30	35	40

*In South Latitude.*

*A Table of the Suns Rising and Setting in all places to the Latitude of 60 degrees.*  
*The Latitude or Height of the Pole.*

44	47	50	52	54	56	58	60	Here enter with the day of the month to find the Suns Rising.	
H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.		
4 21	4 93	5 53	45	3 33	20	3 42	44	11	11
4 21	4 103	5 63	46	3 34	21	3 52	46	17	17
4 23	4 123	5 93	49	3 37	24	3 92	51	23	23
4 27	4 164	33	53	3 43	30	3 162	59	30	30
4 31	4 214	94	03	50	3 38	3 25	2 9	17	16
4 37	4 274	164	83	56	3 48	3 36	3 22	10	12
4 43	4 344	244	194	83	59	3 48	3 35	19	19
4 50	4 424	334	264	194	11	4 13	50	28	25
4 58	4 514	424	374	30	4 23	4 15	4 5	22	31
5 6	5 04	534	484	43	4 36	4 29	4 21	15	6
5 15	5 105	45	04	55	4 50	4 44	4 37	9	13
5 24	5 195	155	115	84	4 4	594	54	31	19
5 33	5 295	265	235	215	18	5 14	5 16	28	25
5 42	5 405	375	365	345	33	5 29	5 27	22	31
5 51	5 505	495	485	475	46	5 45	5 42	16	6
6 0	6 06	06	06	06	06	06	06	10	12
6 9	6 106	116	126	136	146	156	17	4	18
6 18	6 206	236	246	266	286	316	33	26	25
6 27	6 316	346	376	396	426	466	50	20	1
6 36	6 416	456	496	526	567	17	6	14	7
6 45	6 506	567	07	57	107	167	23	9	13
6 54	7 07	07	7 12	7 17	247	317	39	21	19
7 1	7 97	177	237	307	377	457	55	27	25
7 10	7 147	277	347	417	497	598	10	21	31
7 17	7 267	267	417	528	18	128	25	15	6
7 23	7 337	447	528	28	128	24	38	9	11
7 29	7 397	518	08	108	228	358	51	3	17
7 33	7 447	578	78	178	308	449	1	28	23
7 37	7 488	18	118	238	363	519	9	23	29
7 39	7 508	48	148	268	398	559	14	17	5
7 39	7 518	58	158	278	403	569	16	11	11
44	47	50	52	54	56	58	60	In this Setting	

*In South Latitude.*



*A Table of the Suns Rising and Setting in all places to the Latitude of 60 degrees.*  
**The Latitude or Height of the Pole.**

44	47	50	52	54	56	58	60	Here enter with the day of the month to find the Suns Rising.	
H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.	H.M.		
4 21	4 93	5 53	45 3	33 3	20 3	4 2	4 4	11	11
4 21	4 103	5 63	46 3	34 3	21 3	5 2	4 6	5	17
4 23	4 123	5 93	49 3	37 3	24 3	9 2	5 1	29	23
4 27	4 164	3 3	53 3	43 3	30 3	16 2	5 9	23	30
4 31	4 214	9 4	0 3	50 3	38 3	25 3	9	17	6
4 37	4 274	16 4	8 3	58 3	48 3	36 3	22	10	12
4 43	4 344	24 4	19 4	8 3	59 3	48 3	35	4	19
4 50	4 424	33 4	26 4	19 4	11 4	1 3	50	28	25
4 58	4 514	43 4	37 4	30 4	23 4	15 4	5	22	31
5 6	5 04	53 4	48 4	43 4	36 4	29 4	21	15	6
5 15	5 105	45	04	55 4	50 4	44 4	37	9	13
5 24	5 195	15 5	11 5	8 4	44	59 4	54	3	19
5 33	5 295	26 5	23 5	21 5	18 5	14 5	16	28	25
5 42	5 405	37 5	36 5	34 5	35 5	29 5	27	22	31
5 51	5 505	49 5	48 5	47 5	46 5	45 5	43	16	6
6 0	6 06	06	06	06	06	06	0	10	12
6 9	6 106	11 6	12 6	13 6	14 6	15 6	17	4	18
6 18	6 206	23 6	24 6	26 6	28 6	31 6	33	26	25
6 27	6 316	34 6	37 6	39 6	42 6	46 6	50	20	1
6 36	6 416	45 6	49 6	52 6	56 7	17	6	14	7
6 45	6 506	56 7	07	57	10 7	15 7	23	8	13
6 54	7 07	07 7	12 7	17 7	24 7	3 7	39	2	19
7 1	7 97	17 7	23 7	30 7	37 7	45 7	55	27	25
7 10	7 147	27 7	34 7	41 7	49 7	59 8	10	21	31
7 17	7 267	36 7	41 7	52 8	18	12 8	25	15	6
7 23	7 337	44 7	52 8	28	12 8	24 8	38	9	11
7 29	7 397	51 8	08	10 8	22 8	35 8	51	3	17
7 33	7 447	57 8	7 8	17 8	30 8	44 9	1	28	23
7 37	7 488	18	11 8	23 8	36 8	51 9	9	28	29
7 39	7 508	48	14 8	26 8	39 8	55 9	14	17	5
7 39	7 518	58	15 8	27 8	40 8	56 9	16	11	11
44	47	50	52	54	56	58	60	Suns Setting	

*In South Latitude.*



*Sun-rising and setting in any Place of the habitable world.*

*Because the Day of the Month is more readily known to some, than the Sine which the Sun is in; Therefore I have on the Sides of the Table, set down the Days of the Months; the use whereof is the same with the other. For if you find the day of the Month, on the Table; and the Latitude you are in at the head of the Table, in the square meeting of these two, you shall find the Suns-rising or Setting, as is before.*

*For Example.*

*The 21 of January in the Latitude of 40 Degrees, the Sun sets at 5 hours 0 min. the difference of time is 6. min. and the difference of the Dayes are 6; that is, 1 min. for every day. So that if you would know the time of Sun-set on the 24 day it will be at 5 hour 3 min.*

*Again, if you would know the time of Sun-set on the 24 of January, in the Latitude of 42. degrees. Here is neither the Day of the Month, nor the Latitude to be found exactly; but you find that the 21 of Jan. in the Latitude of 40 the Sun sets at Five hours 0 min. And the 27 of Jan. in the Latitude of 44. the Sun sets at 4 hour. 58 min. Now because the Latitude of 42. is the middle between 40. and 44. and likewise the 24 Day, the midst between the 21, and 27 dayes. Take the middle time between the two times set down in the Table, which is 4 H. 59 M. which is the time of Sun set, on that day, in the Latitude desired.*

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